

FORM PTO-1449

## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
2107.1050002/TUM/RLPAPPLICATION NO.  
10/699,867FIRST NAMED INVENTOR  
Sicilia et al.FILING DATE  
Nov. 4, 2003ART UNIT  
1722

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
TWH	AA1	2865050	Jun 6 1955	Strauss	—	—	
TWH	AB1	3488810	Jan 13 1970	Gellert	—	—	
	AC1	3716318	Feb 13 1973	Erik et al.	—	—	
	AD1	3741704	Jun 26 1973	Beasley	—	—	
	AE1	3952927	Apr 27 1976	Shaumburg et al.	—	—	
	AF1	4004871	Jan 25 1977	Hardy	—	—	
	AG1	4010903	Mar 8 1977	Sakuri et al.	—	—	
	AH1	4013393	Mar 22 1977	Gellert	—	—	
	AI1	4043740	Aug 23 1977	Gellert	—	—	
	AJ1	4173448	Nov 6 1979	Rees et al.	—	—	
	AK1	4306852	Dec 22 1981	Mateev et al.	—	—	
TWH	AL1	4368028	Jan 11 1983	Grish et al.	—	—	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
TWH	AM1	DE 3245571 A1	Jun 20 1984	Germany			X Yes No
	AN1	DE 29602484 U1	May 9 1996	Germany			X Yes No
	AO1	DE 19608676 C1	Jan 1 1997	Germany			X Yes No
	AP1	EP 0638407 A1	Feb 15 1995	Europe			X Yes No
TWH	AR1	EP 0750975 A1	Jan 2 1997	Europe			X Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AS	1	
TWH	AT	1	PCT Search Report for WO 03/70446 (Application No. PCT/CA03/00244), dated May 16, 2003.
TWH	AU	1	Images and information from "Gunther Hot Runner Technology" taken from Gunther website August 2003.

EXAMINER  
Tim WeiterinkDATE CONSIDERED  
10-18-05

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 2107.1050002/TUM/RLP	APPLICATION NO. 10/699,867
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
TWH	AA2	4412807	Nov 1 1983	York	—	—	
	AB2	4652230	Mar 24 1987	Osuna-Diaz	—	—	
	AC2	4768283	Sep 6 1988	Gellert	—	—	
	AD2	4768945	Sept 6 1988	Schmidt et al.	—	—	
	AE2	4771164	Sept 13 1988	Gellert	—	—	
	AEF	4781572	Nov 1 1988	Boring	—	—	
	AG2	4832593	May 23 1989	Brown	—	—	
	AH2	4875848	Oct 24 1989	Gellert	—	—	
	AI2	4911636	Mar 27 1990	Gellert	—	—	
	AJ2	4925384	May 15 1990	Manner	—	—	
	AK2	4945630	Aug 7 1990	Gellert	—	—	
	AL2	4981431	Jan 1 1991	Schmidt	—	—	
TWH	AM2	5015170	May 14 1991	Gellert	—	—	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
TWH	AN2	EP 0873841 A2	Oct 28 1998	Europe	—	—	Yes No
	AO2	EP 0962296 A2	Dec 8 1999	Europe	—	—	Yes No
	AP2	EP 1188537 A2	Mar 20 2002	Europe	—	—	Yes No
	AR2	FR 2537497	Jun 15 1994	France	—	—	Yes No
TWH	AS2	JP 5-177664	Jul 20 1993	Japan	—	—	Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TWH	AT	2	Press Release entitled "Mold-Masters Introduces The New Accu-Gate Virtually Eliminating Gate Wear" (Dec. 12, 2002)
TWH	AU	2	Images and Information from website of Mold Hotrunner Solutions (date unknown)
TWH	AV	2	H.P. Manner, "NadelverschluBdusen fur kurze Zykluszeit," <u>Kunststoffe</u> 85(2):166-168 (1995).

EXAMINER <i>Tim Mischak</i>	DATE CONSIDERED <i>10-18-05</i>
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
<i>TWH</i>	AA3	5028227	Jul 2 1991	Gellert et al.	—	—	
	AB3	5053271	Oct 1 1991	Mori et al.	—	—	
	AC3	5208052	May 4 1993	Schmidt et al.	—	—	
	AD3	5254305	Oct 19 1993	Fernandez et al.	—	—	
	AE3	5299928	Apr 5 1994	Gellert	—	—	
	AF3	5334008	Aug 2 1994	Gellert	—	—	
	AG3	5421716	Jun 6 1995	Gellert	—	—	
	AH3	5443381	Aug 22 1995	Gellert	—	—	
	AI3	5492467	Feb 20 1996	Hume et al.	—	—	
	AJ3	5501594	Mar 26 1996	Glozer et al.	—	—	
	AK3	5505613	Apr 9 1996	Krummenacher	—	—	
	AL3	5545028	Aug 13 1996	Hume et al.	—	—	
<i>TWH</i>	AM3	5554395	Sep 10 1996	Hume et al.	—	—	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
<i>TWH</i>	AN3	JP 5-261770	Oct 12 1993	Japan	—	—	X Yes No
	AO3	JP 5-309695	Nov 22 1993	Japan	—	—	X Yes No
	AP3	JP 7-148786	Jun 13 1995	Japan	—	—	X Yes No
	AR3	JP 8-90598	Apr 9 1996	Japan	—	—	X Yes No
<i>TWH</i>	AS3	JP 10-264222	Oct 6 1998	Japan	—	—	X Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>TWH</i>	AT	3	Ewikon Product Catalog entitled "Außenbeheizte Heißkanaldüse, 230 V, für schnelle Farbwechsel," 3 pages, dated October 2000.
<i>TWH</i>	AU	3	Kona Corporation Catalog entitled "Kona Bushing for Sprueless Molding," pages 1-24, dated June 25, 2001.
	AV	3	

EXAMINER

*Tim Heubrich*

DATE CONSIDERED

*10-18-05*

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
TWH	AA4	5652003	Jul 29 1997	Gellert	—	—	
	AB4	5658604	Aug 19 1997	Gellert et al.	—	—	
	AC4	5695793	Dec 9 1997	Bauer	—	—	
	AD4	5700499	Dec 23 1997	Bauer	—	—	
	AE4	5804228	Sep 8 1998	Kofsmann et al.	—	—	
	AF4	5811140	Sep 22 1998	Manner	—	—	
	AG4	5834041	Nov 10 1998	Sekine et al.	—	—	
	AH4	5849343	Dec 15 1998	Gellert et al.	—	—	
TWH	AI4	5879727	Mar 9 1999	Puri	—	—	

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
TWH	AJ4	JP 10-296798	Nov 10 1998	Japan	—	—	Yes X No
	AK4	JP 11-254488	Sep 21 1999	Japan	—	—	Yes X No
	AL4	JP 2002-307492	Oct 23 2002	Japan	—	—	Yes X No
	AM4	JP 2003-11173	Jan 15 2003	Japan	—	—	Yes X No
TWH	AN4	JP 2003-11174	Jan 15 2003	Japan	—	—	Yes X No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AO	4	
	AP	4	
	AQ	4	

EXAMINER <i>Tim Neubink</i>	DATE CONSIDERED <i>10-18-05</i>
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
<i>TWH</i>	AA5	5895669	Apr 20 1999	Seres, Jr. et al.	—	—	
	AB5	5941637	Aug 24 1999	Maurer	—	—	
	AC5	6003182	Dec 21 1999	Song	—	—	
	AD5	6009616	Jan 4 2000	Gellert	—	—	
	AE5	6017209	Jan 25 2000	Gellert et al.	—	—	
	AF5	6030202	Feb 29 2000	Gellert et al.	—	—	
	AG5	6050806	Apr 18 2000	Ko	—	—	
	AH5	6089468	Jul 18 2000	Bouti	—	—	
	AI5	6164954	Dec 26 2000	Mortazavi et al.	—	—	
	AJ5	6227461	May 8 2001	Schroeder et al.	—	—	
	AK5	6245278	Jun 12 2001	Lausenhammer et al.	—	—	
<i>TWH</i>	AL5	6264460	Jul 24 2001	Wright et al.	—	—	

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
<i>TWH</i>	AM5	JP 2003-11176	Jan 15 2003	Japan	—	—	Yes No
	AN5	WO 84/00922	Mar 15 1984	PCT	—	—	Yes No
	AO5	WO 01/78961 A1	Oct 25 2001	PCT	—	—	Yes No
	AP5	WO 03/004243 A1	Jan 16 2003	PCT	—	—	Yes No
	AR5	WO 03/070446 A1	Aug 28 2003	PCT	—	—	Yes No
<i>TWH</i>	AS5	WO 2004/012923 A2	Feb 12 2004	PCT	—	—	Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AT	5	
	AU	5	
	AV	5	

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
TWH	AA6	6273706	Aug 14 2001	Gunther	—	—	
	AB6	6309208	Oct 30 2001	Kazmer et al.	—	—	
	AC6	6358038	Mar 19 2002	Rozenberg	—	—	
	AD6	6358039	Mar 19 2002	Manner et al.	—	—	
	AE6	6419116	Jul 16 2002	Eigler et al.	—	—	
	AF6	2003/0008034	Jan 9 2003	Niewels	—	—	
	AG6	2003/0170340	Sep 11 2003	Sicilia et al.	—	—	
TWH	AH6	2004/0071817	Apr 15 2004	Fischer et al.	—	—	
	AI6						
	AJ6						
	AK6						
	AL6						
	AM6						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AN6						Yes No
	AO6						Yes No
	AP6						Yes No
	AR6						Yes No
	AS6						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AT	6	
	AU	6	
	AV	6	

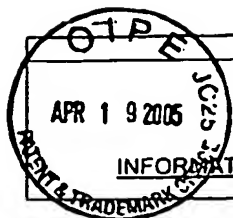
EXAMINER

*John H. Harkins*

DATE CONSIDERED

10/18/05

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APR 19 2005

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
TWH	AA1	5,845,853	Dec. 8, 1998	Friedman	—	—	
TWH	AB1	2004/0058031	Mar. 25, 2004	Niewels	—	—	
TWH	AC1	2004/0208949	Oct. 21, 2004	Niewels	—	—	
	AD1						
	AE1						
	AF1						
	AG1						
	AH1						
	AI1						
	AJ1						
	AK1						
	AL1						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
TWH	BA2	CA 2,473,920	Aug. 28, 2003	Canada	—	—	Yes No
	BB2						Yes No
	BC2						Yes No
	BD2						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TWH	CA	2	PCT International Search Report for International Application No. PCT/CA2004/001920 mailed March 14, 2005.
	CB	2	
	CC	2	

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*Tim Stubbins*

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